

In the Claims

Please cancel claim 2-6 without prejudice. Applicant reserves the right to pursue this subject matter in this or any other appropriate patent application. The cancellation of these claims is not an admission regarding the patentability of this subject matter and should not be so construed.

1. (Amended) A compound comprising a glycosyl moiety having a nitrogen-based substituent linked to a carbon atom within said glycosyl moiety,

[wherein said nitrogen-based substituent is selected from the group consisting of -NH_2 , $\text{-N}^+(\text{CH}_3)_3$,

$\text{-(CH}_2)_n\text{-N(R}_{10})_3$, and $\text{-NH-C(N}^+\text{H}_2\text{)-NH}_2$, and

wherein substituents linked to other carbon atoms within said glycosyl moiety are independently selected from the group consisting of hydrogen, -alkyl, -O-alkyl,

-O-C(O)-alkyl , $\text{-O-CH}_2\text{-CH}_2\text{(O-C(O)-R}_6\text{)-CH}_2\text{(O-C(O)-R}_7\text{)}$,

$\text{-O-CH}_2\text{-CH}_2\text{(OR}_6\text{)-CH}_2\text{(OR}_7\text{)}$, $\text{-O-CH}_2\text{-CH}_2\text{(R}_6\text{)-CH}_2\text{(R}_7\text{)}$,

$\text{-O-(CH}_2)_m\text{-cholesterol}$, polyethylene glycol,

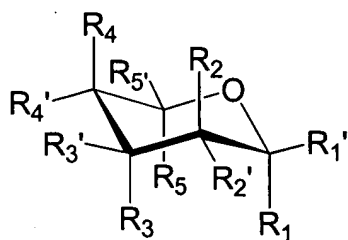
$\text{-O-(CH}_2)_n\text{-N(R}_8)_3$, -NH_2 , $\text{-N}^+(\text{CH}_3)_3$, $\text{-(CH}_2)_n\text{-N(R}_9)_3$, and

$\text{-(CH}_2\text{)-OR}_{10}$,

wherein R_6 , R_7 , R_8 , R_9 , and R_{10} are independently selected from the group consisting of hydrogen, methyl, and alkyl,

wherein m is selected from the group consisting of 0, 1, 2, 3, 4, and 5, and

wherein n is selected from the group consisting of 1, 2, 3, 4, and 5] wherein said compound has a structure set forth in formula I:



(I)

wherein R_1 and R_1' are independently selected from the group consisting of hydrogen, -OCH_3 , -alkyl, -O-alkyl, -O-C(O)-alkyl,

-O-CH₂-CH₂(alkyl)-CH₂(alkyl),
-O-CH₂-CH₂(O-alkyl)-CH₂(O-alkyl),
-O-CH₂-CH₂(O-C(O)-alkyl)-CH₂(O-C(O)-alkyl),
-O-(CH₂)_m-cholesterol, -O-(CH₂)_n-NH₂, and
-O-(CH₂)_n-N⁺(CH₃)₃,

wherein said alkyl moiety is a straight chain hydrocarbon moiety having 14, 16, or 18 carbon atoms and 0, 1, 2, or 3 unsaturations

wherein R₂ and R₂' are independently selected from the group consisting of hydrogen, -NH₂, -N⁺(CH₃)₃, and -NH-C(N⁺H₂)-NH₂;

wherein R₃, R₃', R₄, R₄', R₅ and R₅' are independently selected from the group consisting of hydrogen, -OH, -alkyl, -O-alkyl, -O-C(O)-alkyl, and -(CH₂)-OH

wherein R₆ is hydrogen, and wherein R₇, R₈, R₉, and R₁₀ are independently selected from the group consisting of hydrogen, methyl, and alkyl,

wherein m is selected from the group consisting of 0, 1, 2, 3, 4, and 5, and

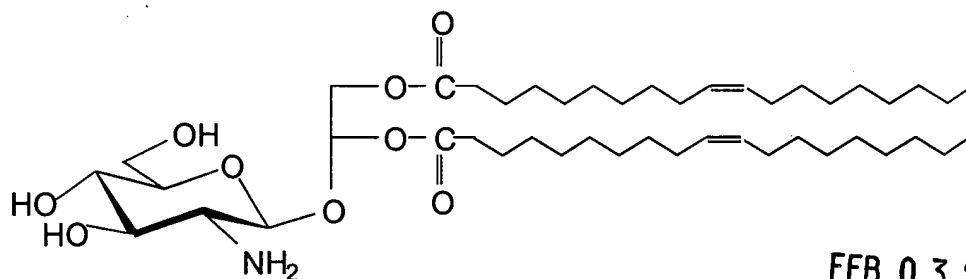
wherein n is selected from the group consisting of 1, 2, 3, 4, and 5;

provided that R₅' is not -CH₂-O-C(O)-(CH₂)₁₄CH₃ when R₃' and R₄' are -OH, R₂' is -NH₂, and R₁' is -OCH₃; and

provided that R₅' is not -CH₂-O-C(O)-(CH₂)_pCH₃, wherein p is selected from the group consisting of 10, 12, 14, or 16, when R₃' is identical to R₅', R₄' is -OH, R₂' is -NH₂, and R₁' is -OCH₃.

7. (Amended) The compound of claim [6] 1 having the structure set forth in formula

(II):



(II)

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